

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631560

Luminaire Tested: GWS-SA1F-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5013.2 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

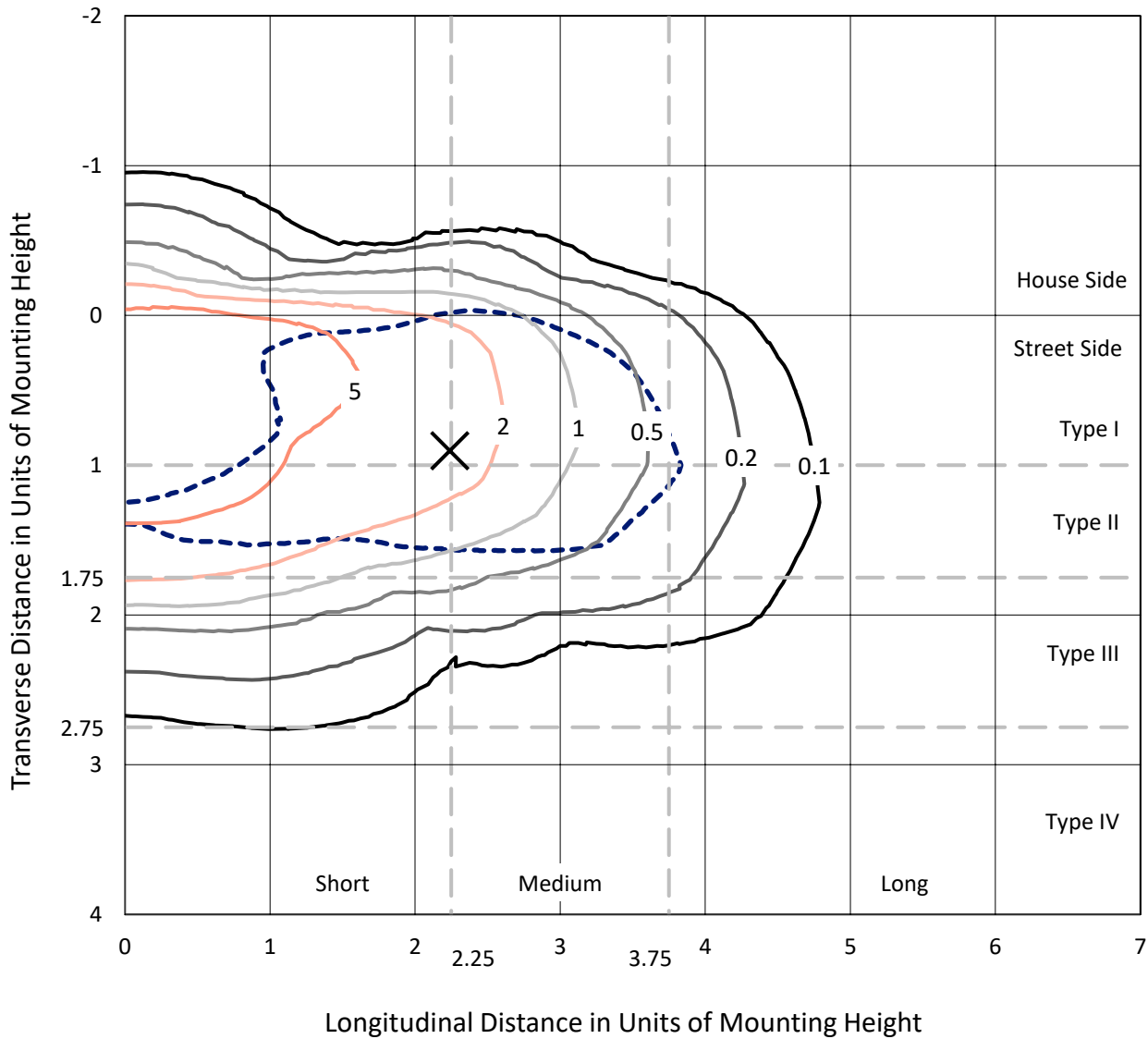
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631560
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Iso-Footcandle Lines of Horizontal Illumination

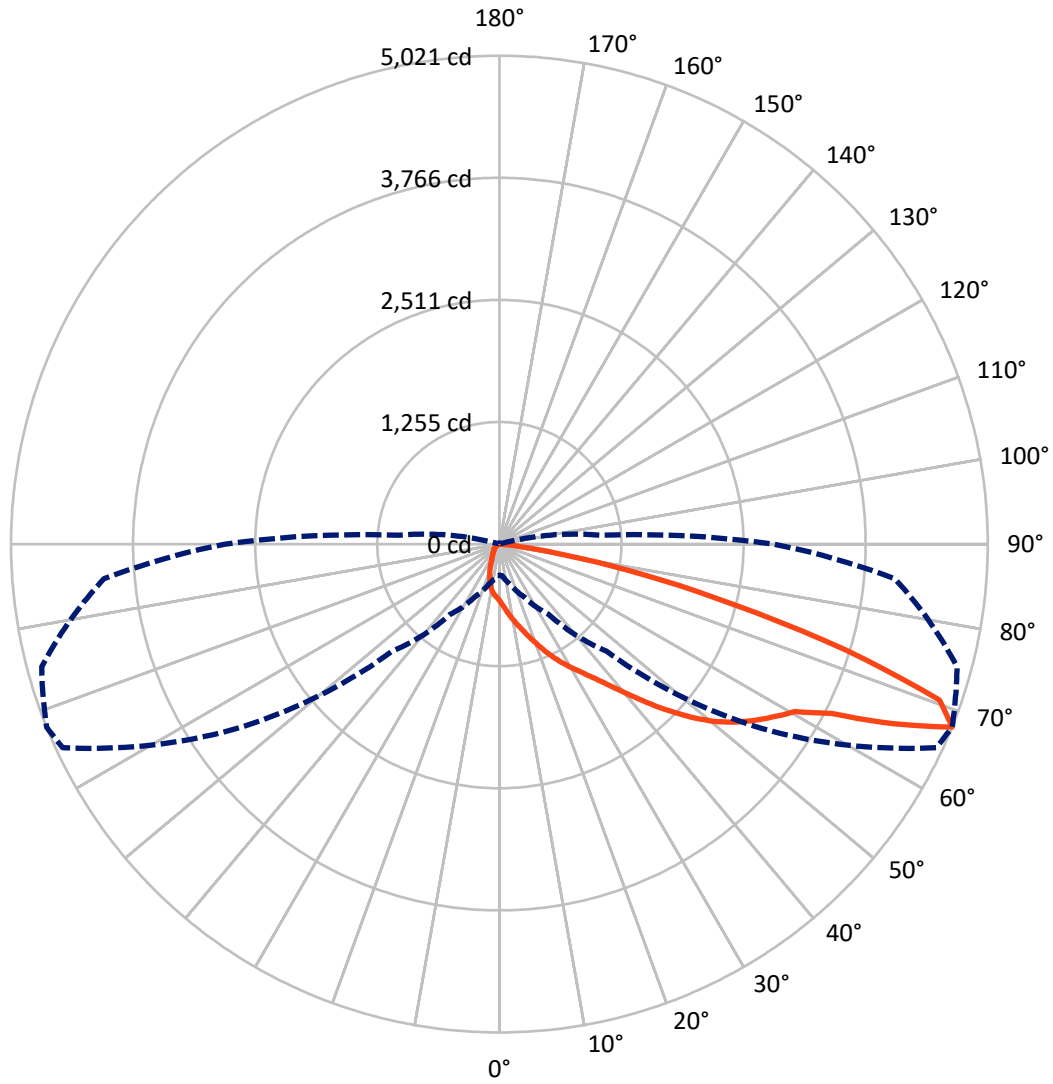
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P631560

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.0	0.0	362.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4651.2	0.0	4651.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	5013.2	0.0	5013.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.1
10°-20°	163.4	3.3
20°-30°	280.8	5.6
30°-40°	488.2	9.7
40°-50°	851.9	17.0
50°-60°	1284.9	25.6
60°-70°	1288.4	25.7
70°-80°	568.4	11.3
80°-90°	30.4	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5013.2	100.0
0°-180°	5013.2	100.0

Coefficient of Utilization

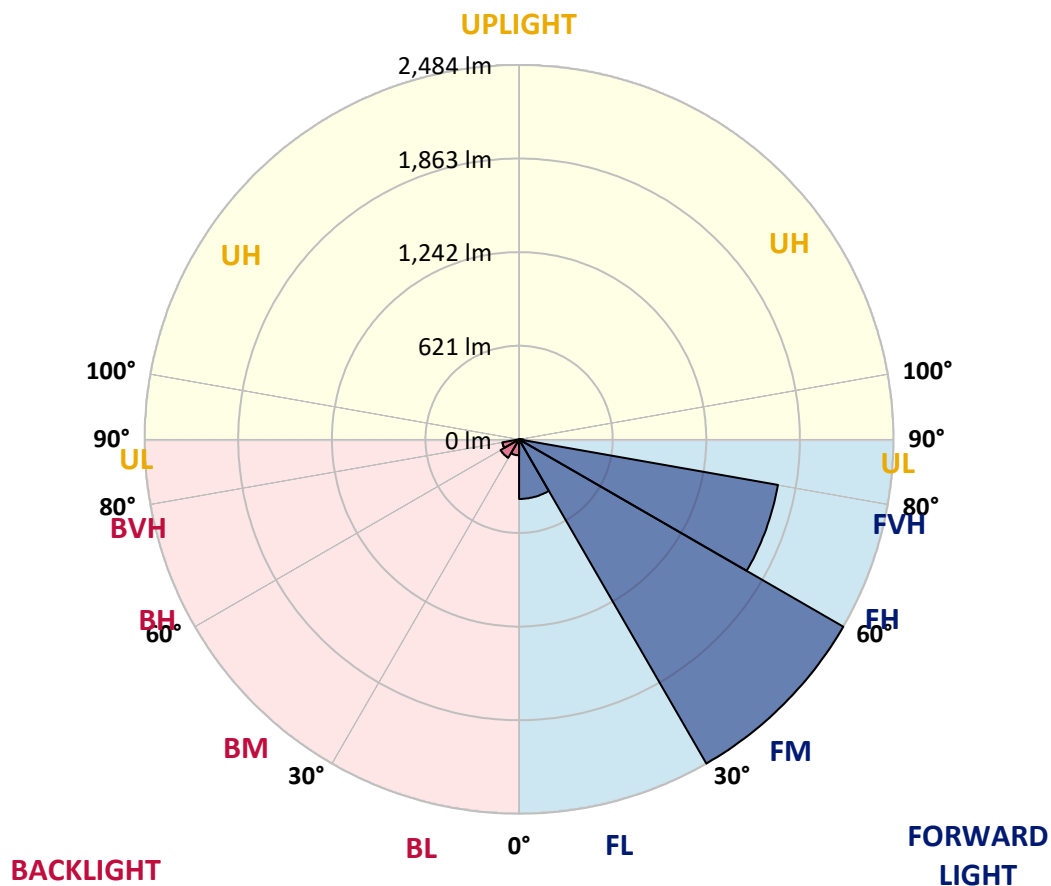


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.2	7.9			
FM (30°-60°)	2483.5	49.5			
FH (60°-80°)	1743.8	34.8			G1/1800
FVH (80°-90°)	28.7	0.6			G1/100
BL (0°-30°)	105.9	2.1	B0/110		
BM (30°-60°)	141.4	2.8	B0/220		
BH (60°-80°)	113.0	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P631560
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4
2.5°	679.4	683.7	679.4	680.3	667.8	662.1	649.6	632.3	628.0	617.0	600.2
5°	762.4	766.2	761.9	760.9	746.5	736.0	715.3	685.6	677.0	655.4	622.3
7.5°	807.5	809.9	811.3	813.7	808.4	799.8	781.1	744.1	735.0	700.0	653.5
10°	812.3	814.2	821.4	835.8	846.3	851.6	841.0	807.0	792.6	758.5	691.8
12.5°	798.8	801.7	813.2	837.2	866.5	893.3	900.1	870.3	857.4	813.7	736.9
15°	781.1	783.5	799.3	831.9	876.1	925.5	953.3	940.4	926.0	880.4	786.8
17.5°	753.7	757.1	779.2	823.3	880.4	950.9	1010.9	1015.2	1005.1	955.7	842.0
20°	738.4	740.8	760.4	806.0	877.5	969.6	1064.6	1105.4	1094.4	1042.6	905.3
22.5°	751.3	753.3	766.2	801.7	867.9	980.2	1114.5	1195.6	1189.4	1135.6	972.0
25°	819.5	825.7	818.0	824.3	872.2	985.9	1154.8	1285.8	1287.2	1233.0	1041.1
27.5°	957.6	949.5	931.2	900.1	905.8	1001.3	1189.4	1370.7	1383.2	1328.0	1102.5
30°	1098.2	1093.4	1082.4	1033.9	993.6	1035.4	1218.6	1457.6	1477.2	1421.6	1157.2
32.5°	1256.1	1260.9	1241.2	1183.1	1114.5	1104.4	1248.9	1540.1	1577.0	1527.6	1221.5
35°	1444.6	1446.0	1407.2	1342.9	1265.2	1218.6	1303.1	1631.2	1699.4	1662.9	1307.4
37.5°	1628.4	1637.0	1615.9	1514.7	1445.6	1360.6	1392.8	1748.3	1844.3	1829.9	1415.3
40°	1791.0	1804.4	1797.7	1699.9	1609.2	1537.7	1531.9	1885.5	2019.4	2035.7	1557.8
42.5°	1920.5	1929.2	1934.5	1864.9	1784.8	1744.5	1703.7	2044.8	2226.2	2292.9	1732.5
45°	2057.3	2060.2	2071.2	2024.2	1954.1	1957.5	1906.6	2238.2	2444.0	2577.8	1933.0
47.5°	2231.4	2241.0	2235.8	2186.3	2123.0	2160.9	2116.3	2437.3	2658.9	2882.0	2138.4
50°	2443.5	2453.6	2448.8	2391.2	2320.7	2336.5	2308.7	2630.6	2866.2	3168.9	2309.2
52.5°	2552.9	2561.1	2620.5	2646.5	2609.5	2508.8	2472.8	2843.2	3041.3	3405.0	2466.1
55°	2500.1	2505.9	2635.4	2744.8	2880.1	2779.3	2637.8	3007.2	3195.8	3589.2	2582.6
57.5°	2281.3	2312.5	2488.6	2673.8	2958.3	3046.6	2905.5	3185.7	3344.5	3717.3	2697.3
60°	1832.7	1831.3	2083.7	2416.2	2805.7	3120.0	3283.6	3427.0	3493.7	3815.7	2850.8
62.5°	1012.8	1021.9	1357.8	1795.8	2381.6	2930.0	3567.1	3844.0	3833.9	3987.4	3091.2
65°	504.2	522.5	704.8	1028.6	1584.7	2421.4	3616.1	4480.2	4451.4	4391.9	3587.8
67.5°	320.0	327.2	428.0	597.8	880.9	1556.4	3311.4	4954.7	5021.3	4871.7	4080.5
70°	207.3	219.3	297.5	408.8	531.6	802.2	2425.8	4647.1	4800.2	4818.9	3773.4
72.5°	112.7	121.4	190.0	291.7	383.8	401.1	1362.6	3487.5	3733.6	4087.7	2952.1
75°	64.3	70.5	104.1	198.1	281.6	244.2	604.0	2334.6	2491.5	2921.4	2115.3
77.5°	38.9	44.1	58.5	96.4	176.6	163.1	228.4	1421.1	1520.9	1743.0	1110.2
80°	17.8	21.1	36.9	53.3	96.4	77.2	87.3	662.6	684.2	715.3	367.5
82.5°	8.2	9.6	16.8	31.7	54.7	44.6	33.6	153.0	215.4	203.9	93.6
85°	1.0	1.0	6.2	13.0	15.4	11.5	13.9	34.5	43.7	61.4	26.9
87.5°	0.0	0.0	0.5	0.5	1.0	1.4	2.9	4.3	6.2	10.1	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631560

CATALOG NUMBER: GWS-SA1F-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4	583.4
2.5°	592.5	579.1	567.1	549.3	537.4	523.9	514.8	503.8	499.4	496.1	491.3
5°	606.0	584.4	555.1	522.5	495.6	470.2	446.7	431.3	417.9	416.0	409.2
7.5°	628.0	595.9	546.5	493.2	447.6	405.4	372.3	345.4	332.0	327.7	320.0
10°	657.3	613.2	533.5	452.0	386.2	335.8	298.4	268.2	247.1	239.4	233.7
12.5°	689.9	629.0	512.9	401.1	326.2	268.7	221.2	189.0	175.6	170.8	166.5
15°	727.3	643.9	480.3	350.2	267.7	197.7	164.1	150.2	144.4	143.0	141.5
17.5°	763.3	653.5	441.4	297.5	205.8	153.5	137.7	132.4	131.0	129.5	128.6
20°	804.1	660.2	395.8	247.6	159.8	130.0	122.3	118.5	115.6	112.7	112.3
22.5°	845.8	660.2	346.4	198.6	133.9	116.6	107.9	100.8	95.5	92.6	91.6
25°	885.7	651.1	297.5	158.8	118.0	103.6	92.6	84.4	77.2	73.9	72.9
27.5°	914.0	627.5	254.8	134.3	107.0	92.1	78.7	69.6	63.8	60.5	60.0
30°	931.7	592.5	215.4	119.9	97.4	80.1	66.7	59.0	54.7	52.3	51.3
32.5°	945.2	549.3	180.4	109.9	88.3	69.6	58.1	51.8	48.0	46.1	45.6
35°	972.0	508.6	154.5	100.8	78.7	60.9	50.9	46.1	43.2	40.8	40.3
37.5°	1009.5	474.5	133.9	92.6	69.6	54.2	46.1	41.7	39.3	36.9	36.5
40°	1064.6	452.9	118.5	84.4	61.4	48.9	42.2	38.4	35.0	32.6	32.1
42.5°	1149.5	442.8	108.4	76.3	54.2	44.1	38.9	34.1	30.7	28.3	27.8
45°	1250.8	448.1	99.8	68.1	49.4	40.8	34.5	29.7	26.4	24.0	23.5
47.5°	1359.2	466.8	92.6	60.5	44.6	37.4	30.7	25.4	22.5	20.2	19.7
50°	1472.4	497.5	86.4	53.3	40.8	33.6	26.4	22.1	19.2	17.3	16.8
52.5°	1570.8	539.3	80.1	48.0	37.4	29.7	23.0	19.2	16.3	14.4	13.9
55°	1664.8	578.6	75.3	43.2	33.6	25.9	20.2	16.3	13.9	12.0	11.5
57.5°	1767.0	620.4	69.6	38.9	30.2	23.0	17.8	13.9	12.0	10.1	9.6
60°	1915.8	682.2	60.9	35.5	26.4	20.2	15.4	12.5	10.6	8.2	7.7
62.5°	2130.2	795.0	51.3	30.7	22.5	17.3	13.0	10.6	8.6	6.7	5.8
65°	2531.3	986.9	42.2	25.4	18.2	14.4	11.0	8.6	6.7	4.8	4.3
67.5°	2820.1	1036.8	34.1	20.6	14.9	11.0	9.1	6.7	4.8	3.4	2.9
70°	2465.6	744.6	26.4	16.8	12.5	8.6	7.2	5.3	3.4	2.4	1.9
72.5°	1857.7	486.5	19.7	13.0	9.6	7.2	5.3	4.3	2.9	1.9	1.4
75°	1309.3	281.1	14.4	9.6	6.7	5.3	4.3	3.4	2.4	1.4	1.4
77.5°	671.2	116.1	10.1	6.7	4.8	3.4	2.9	1.9	1.9	1.4	1.0
80°	203.9	38.4	5.8	4.3	3.4	2.4	1.4	1.4	1.4	1.0	0.5
82.5°	46.5	12.5	3.4	3.4	2.4	1.9	1.4	0.5	0.5	0.0	0.0
85°	12.0	3.8	2.9	2.4	2.4	1.9	1.0	0.5	0.0	0.0	0.0
87.5°	4.3	2.4	2.4	2.4	1.9	1.4	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)